

Date: Tue, 14 Jun 94 04:30:05 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #661
To: Info-Hams

Info-Hams Digest Tue, 14 Jun 94 Volume 94 : Issue 661

Today's Topics:

 "73's"
 (NONE)
 ** QUESTION TO HTX-2
 HTX 202 (2 msgs)
 Microwave bands (was Re: End of '440 i
 Satellite Tracking on the WEB ,just for Fun !
 Test
 TH78 mods

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Tue, 14 Jun 94 08:05:14 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!EU.net!uknet!uos-ee!
ee.surrey.ac.uk!M.Willis@network.ucsd.edu
Subject: "73's"
To: info-hams@ucsd.edu

In article <940613102607_101@ccm.hf.intel.com>, Cecil_A_Moore@ccm.CH.INTel.COM
(Cecil A Moore) writes:

|>
|> Text item: Text_1
|>
|> >What has English got to do with 73? It is not an English word, it
|> >is a radio code. It is already plural... Mike
|>
|> Hey Mike, you need to get out of the shack more often. Before there

|> was such a thing as ham radio, 73 was (and is) an English figure and
|> should follow the rules of the English language, e.g. I can't believe
|> the number of 73's that I have seen lately on info-hams. Try composing
|> the preceeding sentence without pluralizing 73. :-)
|>
|> 73, KG7BK, 00TC, CecilMoore@delphi.com

No. I disagree. It is a code. Its plural is 73. Here is another word, SHEEP. Have
yos seen many sheeps recently? Back to the point, 73 is not English. You would not
use it in general conversation with non-amateurs. You could quite happily use it
in
Spanish, French or Russian. Next we will have QRX's when called by more than one
station on cw .

Mike

Date: Mon, 13 Jun 94 22:49:20 -0700
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!library.ucla.edu!csulb.edu!csus.edu!
netcom.com!netcomsv!lavc!pat.oconnell@network.ucsd.edu
Subject: (NONE)
To: info-hams@ucsd.edu

N>From: wylz@meceng.coe.neu.EDU (Scott Ehrlich)
N>Newsgroups: rec.radio.amateur.misc
N>Subject: (none)
N>Date: 12 Jun 94 02:36:22 GMT
N>Organization: ucsd usenet gateway

N>help

The troops are on the way...

KE6HGL PAT.

06/13/94

Date: Mon, 13 Jun 94 22:49:22 -0700
From: ihnp4.ucsd.edu!agate!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
netcomsv!lavc!pat.oconnell@network.ucsd.edu
Subject: ** QUESTION TO HTX-2
To: info-hams@ucsd.edu

N>From: ray.wade@michaelr.com (Ray Wade)
N>Newsgroups: rec.radio.amateur.misc
N>Subject: Re: ** QUESTION TO HTX-20
N>Date: Sun, 12 Jun 1994 18:10:00 GMT
N>Organization: TRO BBS

N> * OFFLINE 1.56 * If I throw a cat out the car window, is it kitty
N>litter?

At what speed are they talking about? The higher the mph. the higher the
litter factor.

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Date: Mon, 13 Jun 1994 23:35:44 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!usenet.ins.cwru.edu!
news.ysu.edu!malgudi.oar.net!witch!bjohns!bret@network.ucsd.edu
Subject: HTX 202
To: info-hams@ucsd.edu

In article <CrAzDq.p5@telemax.com>, Macy Hallock (macy@telemax.com) writes:
>In article <441@bjohns.win.net> bret@bjohns.win.net (Bret A. Johnson) writes:
>>I am looking for opions on the Radio Shack HTX 202 HT.
>
>--
>Macy M. Hallock, Jr. N80BG +1.216.723.3030 macy@telemax.com macy@fms.com
>Telemax, Inc. - F M Systems, Inc. 152 Highland Drive Medina, OH 44256 USA
>

Thanks!
It (If I buy it) will be my first Radio.

I am in Marietta ohio..

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=V5q8

-----END PGP PUBLIC KEY BLOCK-----

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Date: Mon, 13 Jun 1994 23:37:29 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!usenet.ins.cwru.edu!
news.yasu.edu!malgudi.oar.net!witch!bjohns!bret@network.ucsd.edu
Subject: HTX 202
To: info-hams@ucsd.edu

In article <nduehrCrBwKw.ICx@netcom.com>, Nathan N. Duehr (nduehr@netcom.com)
writes:

>Macy Hallock (macy@telemax.com) wrote regarding the HTX-202:

>

>Which "advanced features" are missing? I guess I have never needed them
>in my HTX-404, which I find has lots and lots of great features for as
>cheap as it was. <grin>

>

Where I live there are no 440 repeater that I know of...

Other then the Freq. what is there if any by run in 440 range?>

-----BEGIN PGP PUBLIC KEY BLOCK-----

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b25ldC5vcmc+
=V5q8

-----END PGP PUBLIC KEY BLOCK-----

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Date: 14 Jun 1994 04:32:50 GMT
From: korie1!newsworthy.West.Sun.COM!abyss.West.Sun.COM!spot!myers@ames.arpa

Subject: Microwave bands (was Re: End of `440 i
To: info-hams@ucsd.edu

In article 7mi@ccnet.ccnet.com, sohn@ccnet.com (Jim Sohn) writes:

>: Not exactly. The microwave bands may be useful for point-point
>: linking, etc., but aren't commonly used, even by the business or
>: government agencies, for mobile communications as we know it.
>

>How about the entire GPS system? How about the INMARSAT system? How
>about all the satellite links on shipboard? How about all that military
>stuff they don't want you to know about?

Yeah. That is why I said "for mobile communications as we know it".

>Some enterprising amateurs have indeed operated mobile above 1300MHz. I
>personally operated mobile-in-motion full-color ATV on 5.8 GHz. Remember,
>it wasn't too long ago that the common belief was that mobile operation
>above 500 MHz wasn't feasible. If that barrier hadn't been broken, there
>would be no cellular service! As an alternative (and less innovative),
>one could always take the point-to-point stuff out of the current
>mobile-friendly bands. This would make more room for the current mobile
>technology and put point-to-point stuff on frequencies which are more
>suited to it.

Sure, some folks have operated mobile above 1300 MHz. I think it would be the
cat's meow if amateurs could actually go develop some new mobile services that
work well in the upper microwave bands.

I'm in complete agreement that point-point linking ought to move up to the
more suitable frequencies.

>: I agree amateurs should indeed get involved
>: on these bands, but these bands are not necessarily valid replacement
>: spectrum for the functions filled by 2m, 70cm, 33cm and 23cm.
>

>You mean the _mobile_ functions, I hope. There are many functions that
>are perfectly suited for microwave. Two that come to mind are all packet
>backbones and links between repeaters. Large chunks of 2m and 70cm are
>tied up with this non-mobile activity. Just think if all BBS forwarding
>was done on other bands. The end users would have more access to their
>BBS because forwarding could be done "in the background". If all links
>were out of 420-440, and we could use it for non-auxiliary stuff, another
>80 FM channels would be available for the traditional mobile user.

Uh, yeah. Read my first paragraph again. My emphasis was indeed on
mobile activity. Wasn't that clear?

* Dana H. Myers KK6JQ, DoD#: j | Views expressed here are
*
* (310) 348-6043 | mine and do not necessarily *
* Dana.Myers@West.Sun.Com | reflect those of my employer
*
* This Extra supports the abolition of the 13 and 20 WPM tests *

Date: 14 Jun 1994 09:33:49 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!xlink.net!scsing.switch.ch!
swidir.switch.ch!univ-lyon1.fr!jussieu.fr!cnam!vcnam.cnam.fr!
mabboux@network.ucsd.edu
Subject: Satellite Tracking on the WEB ,just for Fun !
To: info-hams@ucsd.edu

Hi !

(excuse me for my very bad english)

I have write a small WWW HTML page which is an interface
with a satelllite tracking programe (n3emo-orbit package).

Entry point (URL) is : <http://web2.cnam.fr/vms/equipe/bmabboux/astro.html>

Just for Fun !

PS : this page use the FORM ACTION directive ,so some problemes can be encoured
with some WWW clients .

Bruno Mabboux
Ing. System VMS

Date: 14 Jun 1994 06:34:37 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!usc!nic-
nac.CSU.net!vfoao0ix@network.ucsd.edu
Subject: Test
To: info-hams@ucsd.edu

Date: 14 Jun 1994 09:32:42 GMT
From: ihnp4.ucsd.edu!swrinde!pipex!bt!uknet!EU.net!ub4b!idefix.CS.kuleuven.ac.be!
news.sri.ucl.ac.be!berg@network.ucsd.edu

Subject: TH78 mods
To: info-hams@ucsd.edu

Hi dear OM,

Could anyone on the net tells me if there is any mod. possible
on the TH78E (this is the European version, but I don't believe there
is any huge difference).

If mods are possible, where can I find these ?

mni tnx es best 73, Guy

```
*****
*
*                               *
*   Guy Berger  ( ON7ZV )
*                               *
*   Internet: Berg@cyc.ucl.ac.be
*                               *
*   Cyclotron
*   Universite Catholique de Louvain
*                               *
*                               *
*                               *
*****
```

Date: Tue, 14 Jun 94 02:51:25 -0500
From: news.delphi.com!usenet@uunet.uu.net
To: info-hams@ucsd.edu

References <2td3t2\$6gd@ccnet.ccnet.com>, <Cr9Kyq.EwG@news.Hawaii.Edu>,
<CrBrC4.Fn9@news.Hawaii.Edu>n
Subject : Re: End of '440 in SoCal' thread (was: VHF Maritime Outrage!!)

Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu> writes:

>Wow! No need to whine about 440 when we've got all THIS available.

Are FM transceivers for those bands as readily available as those for 440?

Is "homebrewing" as practical on those bands as on 440 -- referring to
special construction techniques as well as availability of components that can
operate at those higher frequencies?

Are propagation characteristics on those bands such that they are as suitable for FM voice communication as is 440?

Date: 14 Jun 1994 11:54:43 +0300
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!EU.net!sunic!news.funet.fi!
news.cc.tut.fi!proffa.cc.tut.fi!not-for-mail@network.ucsd.edu
To: info-hams@ucsd.edu

References <Cr9Kyq.EwG@news.Hawaii.Edu>, <2ti78m\$q4l@abyss.West.Sun.COM>,
<2tj6rp\$7mi@ccnet.ccnet.com>not-for-
Subject : Re: Microwave bands (was Re: End of '440 in SoCal' thread)

Dana Myers (myers@bigboy.West.Sun.COM) wrote:

> Not exactly. The microwave bands may be useful for point-point
> linking, etc., but aren't commonly used, even by the business or
> government agencies, for mobile communications as we know it.

Jim Sohn (sohn@ccnet.com) wrote:

> How about the entire GPS system? How about the INMARSAT system? How
> about all the satellite links on shipboard?

These are (more or less) line-of-sight paths in the upper UHF range
(L- and S-band) with a predictable path loss.

However, if you operate well below line-of-sight you had to allow for a huge fade margin to fill out the shadows, since diffraction doesn't bend the signal around corners and roofs very much and you have to rely on reflections from buildings on the opposite side of the street. Even the free space path loss increases rapidly with frequency (or actually the capture area for an omnidirectional antenna is proportional to the square of the wavelength), so you have a bad initial situation before you even start to consider diffraction or reflection losses.

If you want similar omnidirectional (horizontal) coverage as with repeaters in lower bands, you need much more ERP. The radiation pattern at the repeater site can be flattened to a few degrees, the mobile radiation pattern to maybe 10-30 degrees and the portable to 40-90 degrees to get some antenna gain. Beyond this, you have to use adaptive phased arrays and have to forget about round table operation.

> Remember,
> it wasn't too long ago that the common belief was that mobile operation
> above 500 MHz wasn't feasible. If that barrier hadn't been broken, there
> would be no cellular service!

Yes, but the cell size is much smaller than in amateur repeaters.

The cell size in cellular phone systems (NMT-900 and GSM (900 MHz)) in urban areas are usually a few hundred meters. Outside urban areas there are short towers every few kilometers along main roads with highly directional antennas aimed along the road. This way you will get high ERP on the road but no coverage one kilometer off the road.

To use smaller "cell" sizes in amateur systems, you need

- a high amateur density to (financially) support a large number of repeaters
- to a number of repeater sites
- large number of _cooperative_ amateurs to build repeater networks for any usable coverage.

The last requirement might be the hardest part :-)

> As an alternative (and less innovative),
> one could always take the point-to-point stuff out of the current
> mobile-friendly bands. This would make more room for the current mobile
> technology and put point-to-point stuff on frequencies which are more
> suited to it.

This makes much more sense.

Paul OH3LWR

Phone : +358-31-213 3657
X.400 : G=Paul S=Keinanen O=Kotiposti A=ELISA C=FI
Internet: Paul.Keinanen@Telebox.Mailnet.fi
Telex : 58-100 1825 (ATTN: Keinanen Paul)
Mail : Hameenpuisto 42 A 26
FIN-33200 TAMPERE
FINLAND

Date: Tue, 14 Jun 1994 05:47:26 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!news.ucdavis.edu!modem63.ucdavis.edu!

ddtodd@network.ucsd.edu
To: info-hams@ucsd.edu

References <2sq5np\$p2j@nyx10.cs.du.edu>, <peterl.770887074@hood>,
<1994Jun12.160838.6850@equator.com>
Subject : Re: FCC computers up!

In article <1994Jun12.160838.6850@equator.com> jod@equator.com (John Setel O'Donnell) writes:

>I'm still waiting. Been 25 weeks so far; resubmitted my application
>after 15 weeks, still no response on that either. Took my test 12/18/93,
>W5YI was VEC, checked with them, sure 'nuf they submitted to the FCC
>12/27/93. FCC still shows "no record of application" when I call.
>Gonna resubmit again soon, I guess.

I think this is where it gets to be the appropriate time to write your congresscritter. If that doesn't work you can always go to the Gettysburgh Address personally and ask for a receipt.

good luck,
dan

Date: Mon, 13 Jun 1994 23:41:56 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!usenet.ins.cwru.edu!
news.yzu.edu!malgudi.oar.net!witch!bjohns!bret@network.ucsd.edu
To: info-hams@ucsd.edu

References <441@bjohns.win.net>, <CrAzDq.p5@telemax.com>, <5k7t-
LY.larrygood@delphi.com><2tgua3\$qgo@everest.pinn.net>oar.ne
Reply-To : bret@bjohns.win.net (Bret A. Johnson)
Subject : Re: HTX 202

In article <2tgua3\$qgo@everest.pinn.net>, Michael Shrake (mshrake@pinn.net) writes:

>I guess all I can suggest is get the extended warranty. In the last 5
>months I killed two of them. One just decided to start flashing error
>codes at me one day when I turned it on. The other was exposed to a VERY
>minor amount of moisture, it was drizzling, and it quit totally.
>My recommendation it to buy "Name Brand". The base models of ICOM,
>Kenwood, and Yaesu are not that much more expensive.
>

I can understand why you would want to get a "Name Brand" but, at RS it is \$250. The others start atleast \$300.. My mine thing on price is my WIFE!!

Who thinks I have to many hobbies in the first place!!

-----BEGIN PGP PUBLIC KEY BLOCK-----
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-----END PGP PUBLIC KEY BLOCK-----
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End of Info-Hams Digest V94 #661
